

ABSTRACT

The present invention provides a dispersion usable for forming an electroconductive layer having an extremely fine pattern and a high thickness/minimum width ratio in the cross-section, and which has a high fluidity enabling application of inkjet to draw a fine pattern at high accuracy and contains only metal nanoparticles as a conductive medium. According to the present invention, a metal nanoparticle dispersion suitable to multiple layered coating by jetting in the form of fine droplets is prepared by dispersing metal nanoparticles having an average particle size of 1 to 100 nm in a dispersion solvent having a boiling point of 80° C or higher in such a manner that the volume percentage of the dispersion solvent is selected in the range of 55 to 80% by volume and the fluid viscosity (20° C) of the dispersion is chosen in the range of 2 mPa · s to 30 mPa · s, and then when the dispersion is discharged in the form of fine droplets by inkjet method or the like, the dispersion is concentrated by evaporation of the dispersion solvent in the droplets in the course of flight, coming to be a viscous dispersion which can be applicable to multi-layered coating.